

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vb

Sampling Date	Tide	Station	Time	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temp (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	SS (mg/L)
2019/11/27	ME	MW1	06:45	B	19.0	91.4	0.20	24.35	32.25	89.37	6.22	24.49	8.02	7.0
2019/11/27	ME	MW1	06:46	M	10.5	117.8	0.54	24.35	32.21	89.78	6.25	15.99	8.02	5.7
2019/11/27	ME	MW1	06:48	T	1.0	26.7	0.53	24.33	32.18	90.79	6.32	10.30	8.02	4.6
2019/11/27	ME	MW1	06:49	B	18.8	45.5	0.74	24.35	32.27	89.49	6.22	24.29	8.01	7.0
2019/11/27	ME	MW1	06:50	M	10.6	80.7	0.47	24.34	32.21	89.90	6.26	15.49	8.02	5.7
2019/11/27	ME	MW1	06:51	T	1.0	136.3	0.26	24.33	32.20	90.31	6.29	10.90	8.02	4.5
2019/11/27	ME	DS1	08:00	B	8.9	343.2	0.55	24.09	31.48	97.99	6.88	20.59	8.07	8.0
2019/11/27	ME	DS1	08:01	M	5.7	310.2	0.97	24.12	31.41	98.50	6.91	12.00	8.06	7.4
2019/11/27	ME	DS1	08:02	T	0.9	294.3	0.71	24.15	31.33	97.80	6.86	9.90	8.06	5.6
2019/11/27	ME	DS1	08:04	B	9.1	311.7	0.75	24.09	31.50	97.21	6.82	22.59	8.06	8.6
2019/11/27	ME	DS1	08:05	M	5.2	330.1	0.70	24.14	31.37	98.02	6.88	11.90	8.06	7.2
2019/11/27	ME	DS1	08:06	T	1.0	307.3	0.66	24.15	31.33	98.23	6.89	10.00	8.06	5.6
2019/11/27	ME	DS2	08:11	B	7.9	322.7	0.64	24.12	31.33	97.96	6.88	14.90	8.07	9.3
2019/11/27	ME	DS2	08:12	M	5.1	341.2	0.46	24.11	31.35	98.27	6.90	12.30	8.06	7.6
2019/11/27	ME	DS2	08:13	T	1.1	292.1	0.89	24.12	31.34	98.28	6.90	9.60	8.06	6.2
2019/11/27	ME	DS2	08:14	B	8.0	329.7	0.16	24.10	31.37	97.48	6.84	13.00	8.06	9.3
2019/11/27	ME	DS2	08:15	M	4.9	303.3	0.63	24.10	31.39	97.99	6.88	10.90	8.06	7.6
2019/11/27	ME	DS2	08:16	T	1.0	296.1	0.21	24.11	31.37	98.40	6.91	9.80	8.06	5.9
2019/11/27	ME	DS3	08:21	B	7.8	168.0	0.34	24.09	31.36	97.73	6.86	15.99	8.07	9.3
2019/11/27	ME	DS3	08:23	M	5.0	16.1	0.33	24.09	31.37	98.14	6.89	12.10	8.06	6.5
2019/11/27	ME	DS3	08:23	T	1.0	309.8	1.16	24.10	31.34	98.55	6.92	8.80	8.06	8.0
2019/11/27	ME	DS3	08:24	B	8.2	321.4	0.32	24.08	31.40	97.24	6.83	15.99	8.06	9.2
2019/11/27	ME	DS3	08:25	M	5.1	304.4	0.83	24.08	31.40	97.35	6.84	12.50	8.06	6.6
2019/11/27	ME	DS3	08:27	T	0.9	312.0	0.81	24.10	31.36	98.87	6.94	8.70	8.06	8.3
2019/11/27	ME	DS4	08:33	B	8.1	331.3	0.30	24.08	31.35	97.61	6.86	16.39	8.07	9.7
2019/11/27	ME	DS4	08:34	M	5.1	303.2	0.67	24.08	31.36	97.61	6.86	10.80	8.06	9.2
2019/11/27	ME	DS4	08:35	T	1.0	325.6	0.57	24.08	31.36	98.93	6.95	8.10	8.06	5.5
2019/11/27	ME	DS4	08:36	B	8.0	5.1	0.76	24.07	31.38	96.82	6.80	18.39	8.06	10.2
2019/11/27	ME	DS4	08:37	M	5.1	286.6	0.56	24.07	31.39	97.53	6.85	10.60	8.06	9.0
2019/11/27	ME	DS4	08:38	T	1.1	281.2	0.33	24.07	31.40	98.14	6.89	9.40	8.06	5.7
2019/11/27	ME	DS5	08:43	B	8.0	318.9	0.49	24.07	31.29	98.58	6.93	17.39	8.06	15.8
2019/11/27	ME	DS5	08:44	M	4.9	306.6	0.48	24.08	31.26	97.38	6.84	9.30	8.07	12.6
2019/11/27	ME	DS5	08:45	T	1.0	315.6	0.36	24.12	31.11	98.09	6.90	8.40	8.06	5.4
2019/11/27	ME	DS5	08:46	B	8.1	302.9	0.21	24.07	31.33	97.09	6.82	18.99	8.06	14.6
2019/11/27	ME	DS5	08:47	M	5.1	23.6	0.72	24.08	31.25	97.20	6.83	9.60	8.06	12.1
2019/11/27	ME	DS5	08:48	T	1.0	282.5	0.69	24.13	31.12	97.71	6.87	8.10	8.06	5.7
2019/11/27	ME	US1	09:05	B	8.8	194.9	0.14	24.15	31.59	97.62	6.84	19.09	8.05	12.8
2019/11/27	ME	US1	09:06	M	5.7	306.1	0.86	24.19	31.56	97.52	6.83	13.70	8.05	7.9
2019/11/27	ME	US1	09:07	T	1.2	283.0	0.80	24.23	31.54	98.03	6.86	11.00	8.05	8.9
2019/11/27	ME	US1	09:08	B	8.8	184.8	0.21	24.16	31.58	97.44	6.83	16.69	8.05	12.1
2019/11/27	ME	US1	09:09	M	5.5	297.0	0.77	24.20	31.55	97.64	6.84	13.50	8.05	7.9
2019/11/27	ME	US1	09:09	T	1.1	269.2	0.68	24.24	31.53	98.36	6.88	10.80	8.05	8.7
2019/11/27	ME	US2	09:15	B	8.9	173.0	0.28	24.18	31.50	97.99	6.87	13.10	8.06	13.3
2019/11/27	ME	US2	09:16	M	5.3	303.2	0.99	24.18	31.51	98.40	6.89	11.50	8.06	6.5
2019/11/27	ME	US2	09:17	T	1.0	326.1	0.64	24.19	31.52	98.41	6.89	9.70	8.05	8.1
2019/11/27	ME	US2	09:18	B	9.2	290.4	0.85	24.18	31.51	97.30	6.82	12.30	8.05	13.0
2019/11/27	ME	US2	09:19	M	5.7	278.8	0.52	24.18	31.51	97.71	6.85	12.40	8.05	6.5
2019/11/27	ME	US2	09:20	T	1.0	228.2	0.05	24.19	31.52	98.53	6.90	10.40	8.05	7.6

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2019/11/27	MF	US2	12:23	B	7.9	149.1	0.51	23.97	32.00	96.22	6.75	14.40	8.11	12.6
2019/11/27	MF	US2	12:24	M	4.9	93.0	0.23	24.16	31.27	99.22	6.96	7.00	8.10	10.3
2019/11/27	MF	US2	12:25	T	0.9	106.1	0.52	24.27	31.13	99.71	6.99	7.30	8.11	8.2
2019/11/27	MF	US2	12:26	B	8.1	148.2	1.00	23.97	32.00	96.22	6.75	15.00	8.10	11.8
2019/11/27	MF	US2	12:27	M	5.0	39.1	0.49	24.15	31.37	99.51	6.98	7.70	8.10	10.3
2019/11/27	MF	US2	12:28	T	1.1	123.1	0.78	24.28	31.10	100.91	7.07	6.80	8.10	8.1
2019/11/27	MF	US1	12:33	B	10.1	141.5	0.52	24.10	31.64	95.10	6.67	22.49	8.08	16.0
2019/11/27	MF	US1	12:34	M	6.2	114.1	0.60	24.06	31.61	96.10	6.74	9.40	8.08	11.0
2019/11/27	MF	US1	12:35	T	1.0	257.7	0.13	24.30	31.15	99.39	6.96	7.00	8.09	10.6
2019/11/27	MF	US1	12:38	B	10.1	117.1	0.61	24.00	31.86	95.79	6.72	19.09	8.08	15.4
2019/11/27	MF	US1	12:40	M	6.1	161.2	0.18	24.15	31.23	99.38	6.98	7.20	8.09	10.8
2019/11/27	MF	US1	12:41	T	1.1	103.1	0.54	24.77	30.26	102.87	7.19	6.20	8.07	11.4
2019/11/27	MF	DS1	12:49	B	8.0	85.6	0.75	24.17	31.57	96.27	6.74	7.80	8.06	10.0
2019/11/27	MF	DS1	12:50	M	5.0	63.6	0.41	24.18	31.56	97.46	6.83	7.30	8.07	10.3
2019/11/27	MF	DS1	12:51	T	0.7	108.9	0.90	24.53	31.03	99.96	6.98	6.30	8.07	9.3
2019/11/27	MF	DS1	12:59	B	7.8	54.0	0.49	24.12	31.55	96.44	6.76	8.80	8.07	10.6
2019/11/27	MF	DS1	13:00	M	4.7	88.3	0.20	24.12	31.39	98.24	6.89	7.90	8.07	10.4
2019/11/27	MF	DS1	13:01	T	1.1	120.8	1.35	24.59	30.62	102.63	7.18	6.40	8.06	9.6
2019/11/27	MF	DS2	13:06	B	10.0	78.7	0.02	24.19	31.57	96.93	6.79	8.00	8.06	9.7
2019/11/27	MF	DS2	13:07	M	5.9	121.6	0.67	24.19	31.54	96.52	6.76	7.80	8.06	10.2
2019/11/27	MF	DS2	13:08	T	1.0	107.9	1.17	24.56	31.03	100.91	7.04	6.10	8.06	9.2
2019/11/27	MF	DS2	13:09	B	9.9	89.3	0.52	24.19	31.56	96.32	6.75	8.90	8.06	9.9
2019/11/27	MF	DS2	13:10	M	6.0	152.6	0.53	24.20	31.53	96.72	6.77	7.70	8.06	10.0
2019/11/27	MF	DS2	13:10	T	1.1	97.6	0.67	24.49	31.04	100.61	7.03	6.70	8.06	8.6
2019/11/27	MF	DS3	13:15	B	8.9	156.7	0.37	24.20	31.58	96.50	6.76	10.50	8.06	10.8
2019/11/27	MF	DS3	13:16	M	5.4	136.8	0.80	24.20	31.56	96.90	6.78	8.30	8.05	11.5
2019/11/27	MF	DS3	13:17	T	0.9	120.1	0.71	24.52	31.12	100.29	7.00	6.10	8.05	8.0
2019/11/27	MF	DS3	13:18	B	9.2	64.9	0.49	24.20	31.58	96.50	6.76	10.20	8.05	11.2
2019/11/27	MF	DS3	13:19	M	5.4	128.9	0.23	24.22	31.53	96.90	6.78	8.10	8.05	12.0
2019/11/27	MF	DS3	13:20	T	1.1	79.7	0.40	24.58	31.05	101.08	7.05	6.00	8.05	7.9
2019/11/27	MF	DS4	13:28	B	13.0	200.7	0.31	24.21	31.59	95.68	6.70	13.90	8.05	9.8
2019/11/27	MF	DS4	13:28	M	7.6	11.1	0.19	24.21	31.55	96.58	6.76	10.50	8.05	9.2
2019/11/27	MF	DS4	13:30	T	1.0	100.8	1.39	24.59	30.97	102.76	7.17	5.90	8.06	7.1
2019/11/27	MF	DS4	13:31	B	13.0	73.7	0.64	24.21	31.58	96.17	6.73	12.00	8.05	10.4
2019/11/27	MF	DS4	13:32	M	7.6	94.2	0.63	24.21	31.54	96.67	6.77	8.80	8.04	9.1
2019/11/27	MF	DS4	13:33	T	1.3	85.9	0.90	24.64	30.92	103.25	7.20	5.60	8.05	7.5
2019/11/27	MF	DS5	13:40	B	8.9	118.6	0.46	24.24	31.60	96.25	6.73	20.99	8.03	12.4
2019/11/27	MF	DS5	13:41	M	5.3	127.8	0.46	24.23	31.56	96.85	6.78	11.20	8.04	8.0
2019/11/27	MF	DS5	13:42	T	0.9	121.1	1.23	24.57	31.03	101.33	7.07	5.80	8.05	7.3
2019/11/27	MF	DS5	13:43	B	9.1	85.1	0.76	24.23	31.59	96.34	6.74	19.69	8.03	12.6
2019/11/27	MF	DS5	13:44	M	5.3	80.3	0.61	24.23	31.55	96.54	6.76	11.10	8.04	8.3
2019/11/27	MF	DS5	13:45	T	1.2	93.4	0.83	24.45	31.20	100.73	7.04	6.20	8.04	7.5
2019/11/27	MF	MW1	14:28	B	18.8	47.6	0.42	24.49	32.44	89.87	6.23	6.80	7.97	13.8
2019/11/27	MF	MW1	14:29	M	10.6	101.9	0.80	24.58	32.31	93.95	6.51	4.91	7.98	14.7
2019/11/27	MF	MW1	14:30	T	0.7	56.7	1.31	24.60	32.23	95.64	6.62	4.71	7.99	9.4
2019/11/27	MF	MW1	14:32	B	19.1	91.9	1.18	24.51	32.41	90.85	6.30	5.80	7.97	14.0
2019/11/27	MF	MW1	14:33	M	10.4	29.5	0.65	24.53	32.38	92.05	6.38	5.10	7.96	14.2
2019/11/27	MF	MW1	14:34	T	0.8	72.7	0.58	24.60	32.22	96.63	6.69	5.01	7.98	9.4